

**Abstract of the disclosure:**

2045

**New techniques are presented for providing proportional activation of model railroad functions and effects with control keys on a model railroad layout control system. This permits for example a throttle device connected to a digital layout control system to provide for a "playable" or variable-pitch whistle sound effect**

2050

**where prior art was severely limited in providing this effect realistically. This invention allows proportional keys with the added ability to control multiple aspects of any effect and to latch proportional values at any state. This invention also allows the expansion of the wireless and Internet connection capabilities of the network of a layout control system so the new proportional capabilities can be carried across**

2055

**these connections.**